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MONTANA NEW HOME OWNERS SURVEY 1991

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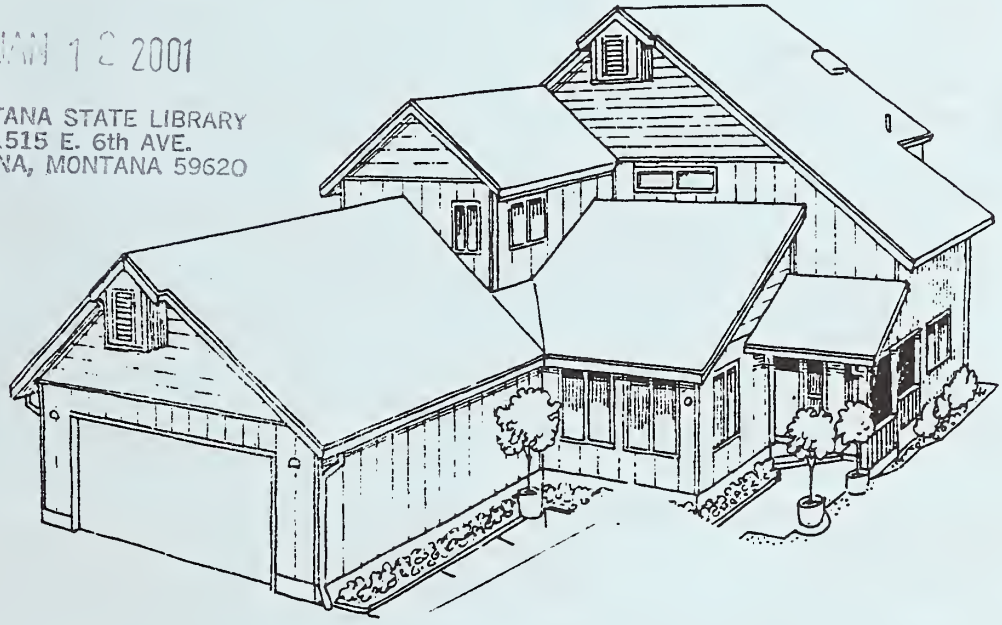

Montana Department of Natural Resources and Conservation
Energy Division

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MONTANA NEW HOME OWNERS' SURVEY

1. Where is your new home located?_____
(nearest city or town)

a. Is it inside the city or town boundaries Yes___ No ___
b. Is the construction of your home completed? Yes___ No___
c. Are you presently living in the home? Yes___ No___
d. Is the home a vacation or weekend home? Yes___ No___
e. Is the home a condominium? Yes___ No___
f. Is it a modular home? Yes___ No___

2. How much of home was designed by:

	All or Most	About Half	A Little	Nothing
Yourself	( )	( )	( )	( )
Architect	( )	( )	( )	( )
Home builder/contractor	( )	( )	( )	( )
Pre-published floor plan	( )	( )	( )	( )
Not sure who designed home	☐			

3. How much of your home did you build yourself?
All___ Most___ About Half___ A Little___ Nothing___
What was the name of the general contractor (if applicable)?
Name:_____
Location:_____

4. About how many square feet of living space are in your home
(please exclude unfinished basement areas). _____sq. feet

5. In which price range does your home fall (exclude land price)?
$ 30,000-$ 50,000___ $ 75,001-$100,000___ $125,001-$150,000___
$ 50,001-$ 75,000___ $100,001-$125,000___ $150,001 and greater___

6. If natural gas service is available, is it installed in your home?
Yes☐ No☐ Natural gas is not available ☐

7. Did the availability of natural gas service influence where you decided to build (or buy) your new home?
Yes☐ No☐

8. Which electric utility or rural electric cooperative provides electric service to the home?
_____

9. How many persons in your household are in the following age groups?
over 60 _____ 30-39 _____
50-59 _____ 20-29 _____
40-49 _____ under 20_____

ENERGY USE QUESTIONS

1. What is your primary fuel for:

	natural gas	electricity	liquid propane	wood	oil	fuel other(explain)
Space heating	☐	☐	☐	☐	☐	☐ _____
Water heating	☐	☐	☐	☐	☐	☐ _____
Cooking	☐	☐	☐	☐	☐	☐ _____

2. Does the home have a secondary or backup fuel for space heating? Yes ☐ No ☐

a. If Yes, what is the fuel?

natural gas	electricity	liquid propane	wood	fuel oil	other(explain)
☐	☐	☐	☐	☐	☐ _____

Secondary heating fuel

b. How often is secondary heating used in winter?

almost every day in winter__ special occasions only___ cold days only__ power outages only__

c. What time of day is secondary heating normally used?

24 hours a day__ daytime only__ nights only__

d. Where is secondary heating used?

throughout house___ kitchen or bathrooms only___

central living area___ bedrooms only___ other(explain)_____

3. If you heat with wood, do you:

gather and cut most of your own wood___

purchase logs and cut it yourself___

purchase wood already cut into stove lengths___

purchase wood pellets___

other(explain)_____

4. Was your home comfortable during the severe cold in December 1990?

Warm all of the time	Warm most of the time	A little chilly most of the time	It was cold most of the time
☐	☐	☐	☐

5. About how much was your December utility (or fuel) bill? $_____

6. Have heating bills been:

higher than you expected___ about what you expected ___ lower than you expected ___

HOME ENERGY FEATURES

The following are questions about the energy characteristics of your new home. Please answer these questions to the best of your ability.

1. ROOF and CEILING CONSTRUCTION

a. Which insulation level is closest to the typical of R-value in your home's ceiling?

R-19___ R-45___ R-60___ Other(explain)_____
R-38___ R-49___ Not Sure___

b. Which types of insulation are installed in the ceiling?

Batt ☐ Loose Fill ☐ Not Sure ☐
Insulation (fiberglass or cellulose)
Other(explain)_____

c. Is there a vapor barrier (plastic sheathing) installed under the ceiling insulation?

Yes___ No___ Not Sure___

2. EXTERIOR WALL CONSTRUCTION

a. Are exterior walls built extra thick to allow for greater insulation levels?

Yes___ No___ Not Sure___

b. Are the exterior walls built with:

2x4s___ 2x6s___ double 2x4s___ Not Sure___
Walls are logs___ Other(explain)_____

c. Which insulation level is closest to the typical of R-value in the home's walls?

R-11___ R-19___ R-27___ Log Walls___
R-15___ R-24___ R-40___ Not Sure ___

d. Which types of insulation are installed in the exterior walls?

Batt ☐ Insulated Foam ☐ Blown in ☐ Not Sure ☐ No Insulation ☐
Insulation Sheeting Insulation
Other(explain)_____

e. Is there a Vapor Barrier (plastic sheathing) installed inside of the wall?

Yes___ No___ Not Sure___

f. Is Vapor Barrier Paint used to seal the walls?

Yes___ No___ Not Sure___

3. BASEMENT AND CRAWLSPACE CONSTRUCTION

a. Is there insulation in the exterior walls of the basement or crawlspace?

Yes___ No___ Not Sure___

b. Which insulation level is closest to the typical R-value in the basement or crawlspace?

R- 6___ R-11___ R-19___ Not Sure___ No insulation installed___

c. Which types of insulation are installed in the basement or crawlspace?

Batt Insulation ☐ | Insulated Foam Sheeting ☐ | Blown in Insulation ☐ | Not Sure ☐ | No Insulation ☐

Other(explain)_____

4. VENTILATION

a. What kinds of ventilation systems are in your home?

Kitchen and Bathroom Fans	Heat Recovery Ventilation (air-to-air heat exchanger)	Non-heat Recovery Ventilation (upgraded exhaust fans and wall vents for fresh air)
☐	☐	☐

Other(explain)_____

b. If you have heat recovery or non-heat recovery ventilation, how often are systems operated during winter?

All day long ___ Several times a day ___ Once or twice a day ___

Once or twice a week___ Almost never ___

c. In December, did you notice ice buildup on windows or doors?

Yes,substantial ice buildup ☐	Yes, minor ice buildup ☐	No visible ice buildup ☐	Not Sure ☐

5. SOLAR

a. Is your home especially designed to use solar energy?

Yes, large south facing widows and solar mass to hold heat ☐	Yes, large south facing windows, but no solar mass ☐	Not designed for solar ☐	Not Sure ☐

6 WINDOWS and DOORS

a. What kind of windows are most typically installed in the home?

Single Glazed ☐	Double Glazed ☐	Double Glazed "low E" ☐	Triple Glazed ☐	Not Sure ☐

Other(explain)_____

b. What kind of air sealing is installed around windows and doors?

Caulking___ Foam (sprayed in)___ Weatherstripping___
Fiberglass (batt)___ Rubber inserts___ Not Sure___

7. HEATING SYSTEM

a. Did you pay extra to have a high efficiency furnace installed?

Yes ☐ No ☐ Not Sure ☐ Question is not applicable ☐

b. What is the rated energy efficiency of the home's furnace?

Super high efficiency furnace (above 90% efficiency rating)___
High efficiency furnace (80% to 90% efficiency rating)___
Regular furnace (less than 80 percent efficiency)___
No furnace is installed in the home___
Not sure about the furnace's efficiency rating___

c.Is there a programmable or automatic setback thermostat for the heating system?

Yes ☐ No ☐ Not Sure ☐

If yes, do you use the timer settings?

Yes, all of the time ☐ Yes, some of the time ☐ Rarely use the timer ☐

8. EXTRA COSTS

a. About how much extra did energy features add to the cost of your home?

__ 0% __+1% __+3% __+5% __+8%
__+10% __+15% __+20% __+25% __Not Sure

b. If you had an additional $2,500 to spend on your home, would you add energy saving improvements or other non-energy features?

All or mainly energy improvements ☐ A mix of energy improvements and other features ☐
Mainly non-energy features ☐ Not Sure ☐

SOURCES OF ENERGY INFORMATION

1. How much did you talk to your contractor about the energy conservation features of your new home?

A great deal ☐ A little ☐ Did not discuss energy ☐ Did not hire a contractor ☐

2. How much did your real estate agent tell you about the home's energy features?

A great deal___ Did not discuss energy___
A little___ Did not use a real estate agent___

3. How much did you rely on energy information from the following sources?

	Great deal	A little		Great deal	A little
Contractors	___	___	Utility/Co-op Rep	___	___
Architects	___	___	Pamphlets	___	___
Real Estate Agents	___	___	State of Montana personnel	___	___
Library materials	___	___	Cooperative Ext. Service	___	___
Newspaper articles	___	___	Hardware/Building Stores	___	___
Friends	___	___	Home building books	___	___
Magazines	___	___	Television information	___	___
Videos	___	___	Other(explain)_____	___	___
			_____		

4. Before building (or buying) did you obtain free publications on energy-efficient new homes from:

Utilities___ Electric Cooperatives___
State of Montana___ Cooperative Extension Service___
Local Libraries___ I didn't know about free publications___

5. Did you attend any workshops or seminars on building energy-efficient homes?

Yes ☐ No ☐

6. Did you attend "Home Shows" to get ideas for your new home?

Yes ☐ No ☐

7. Do you remember seeing television promotions about your utility's "Super GOOD CENTS program for building energy-efficient homes?

Yes ☐ No ☐

8. Did you hear about the "Super GOOD CENTS" program from another source?

Yes ☐ No ☐ What was the source?_____

9. Is your home certified by a utility as a "Super GOOD CENTS" home?

Yes ☐ No ☐ Not Sure ☐

SURVEY NUMBER _____

MISCELLANEOUS ENERGY QUESTIONS

1. How do you rate the overall energy-efficiency of your home?

Excellent	Very Good	Good	Fair	Poor
☐	☐	☐	☐	☐

2. Are you satisfied the home is as energy-efficient as you want it to be?

Yes, would not make any changes ☐	Yes, generally satisfied, but would make minor changes ☐	Yes, generally satisfied, but want to add or upgrade some energy features ☐	No, home needs important energy improvements energy features ☐

3. How much did you discuss the home's energy features with your banker or mortgage company?

A great deal ☐	A little ☐	Did not discuss energy ☐	Question is not applicable ☐

4. Do you feel energy features were accurately valued in the appraisal?

Yes___ No___ Not Sure___ No appraisal conducted___

5. How far is the home from your place(s) of work? ___ ___ miles?

Check here if someone in your household is employed at home ☐

Check here if someone in your household is retired or semi-retired ☐

6. Before making final decision about your home, how much time did you spend studying the following home features?

	a great deal of time	some time	a little time	relied on contractor
home floor plans	( )	( )	( )	( )
kitchen designs	( )	( )	( )	( )
insulation levels	( )	( )	( )	( )
window types	( )	( )	( )	( )
heating systems	( )	( )	( )	( )
ventilation systems	( )	( )	( )	( )
solar designs	( )	( )	( )	( )
bathroom designs	( )	( )	( )	( )

7. What do you like best about your home's energy features?

_____

_____

8. What do you like least about your home's energy features?

_____

_____